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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/709,451	05/06/2004	Robert H. Devine II	839-1306	3450
30024	7590 12/20/2004		EXAMINER	
NIXON & VANDERHYE P.C./G.E.			LIN, ING HOUR	
1100 N. GLEE SUITE 800	BE RD.		ART UNIT	PAPER NUMBER
ARLINGTON	ARLINGTON, VA 22201		1725	

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DATE MAILED: 12/20/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	A\				
	10/709,451	DEVINE ET AL.					
Office Action Summary	Examiner	Art Unit					
	Ing-Hour Lin	1725					
The MAILING DATE of this communication a	opears on the cover sheet v	vith the correspondence address	•				
Period for Reply	LVIC OFT TO EVOIDE A	AONTHAN FROM					
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a re  - If NO period for reply is specified above, the maximum statutory perio  - Failure to reply within the set or extended period for reply will, by statu.  Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).		reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communica NBANDONED (35 U.S.C. § 133).	tion.				
Status							
1) Responsive to communication(s) filed on $\underline{06}$	<u>May 2004</u> .						
2a) This action is <b>FINAL</b> . 2b) ⊠ Th	is action is non-final.						
	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	· ·						
4)  Claim(s) 1-10 is/are pending in the applicatio 4a) Of the above claim(s) is/are withdrest is/are allowed.  5)  Claim(s) is/are allowed.  6)  Claim(s) 1-10 is/are rejected.  7)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction and/	awn from consideration.		4.				
Application Papers							
9) The specification is objected to by the Examir	ner.						
10)⊠ The drawing(s) filed on <u>06 May 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)∐ The oath or declaration is objected to by the E	Examiner. Note the attache	ed Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of:  1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Burea * See the attached detailed Office action for a list	nts have been received.  Its have been received in a cority documents have been au (PCT Rule 17.2(a)).	Application No  received in this National Stage					
Attachment(s)  1) Notice of References Cited (PTO-892)	4) 🗖 Interview	Summary (PTO-413)	ļ				
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)     Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	Paper No	(s)/Mail Date Informal Patent Application (PTO-152)	-				

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sikkenga et al in view of Mertins.

Sikkenga et al (col. 2, lines 49+) teach the claimed casting method and ceramic core for producing a hollow investment-cast article such as a gas turbine airfoil or nozzle part by using multipiece core assembly. Sikkenga et al fail to teach the use of ceramic core with locators and method

However, Mertins (col. 1, lines 47+) teaches the use of ceramic core with locators and method for the purpose of effectively providing locators on a ceramic core for use in casting molten metallic materials having corresponding datum pads (cast geometric features)

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corresponding to the locators on the core. It would have been obvious to one having ordinary

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skill in the art to provide Sikkenga et al the use of ceramic core with locators and method as

taught by Mertins in order to effectively provide locators on a ceramic core for use in casting

molten metallic materials having corresponding datum pads (cast geometric features)

corresponding to the locators on the core.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Ing-Hour Lin whose telephone number is (571) 272-1180. The

examiner can normally be reached on M-F (8:00-5:30) Second Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Tom Dunn can be reached on (571) 272-1171. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

INd.

I.-H. Lin

12-10-04

PRIMARY EXAMINER

Illy Store 12/13/04